-16-

WHAT IS CLAIMED IS:

5

7

9

10

11

1	.1. A	n ap	ppar	ratus f	or a	apply	ing	a	thermal	cond	ductive
2	medium	to	an	inside	por	ction	of	a	sheath,	the	apparatus
3	compri	sino	a :								

a tubular applicator tip including a nozzle positioned in a sidewall of the tubular applicator tip;

a pump having an input adapted for coupling to a source of thermal conductive medium and an output coupled to said tubular applicator tip; and

a control module for controlling the pump and thereby the amount of thermal conducive medium applied to said sheath by the tubular applicator tip.

- The apparatus of claim 1, wherein the tubular
 applicator tip has a closed tip end preventing expulsion
 of thermal conductive medium from the tip in the axial
 direction of said tip.
- 1 3. The apparatus of claim 2, further comprising:
 2 a contact switch coupled to the control
 3 circuit, the contact switch being positioned to come into
 4 contact with the sheath when the sheath is properly
 5 positioned over the tubular applicator tip.
- 1 4. The apparatus of claim 3, further comprising:
 2 an applicator shaft for coupling the tubular
 3 applicator tip to the pump output.

- 1 5. The apparatus of claim 4,
- wherein the nozzle has a diameter in the range
- extending from and including 0.14" to and including
- 4 0.145"; and
- 5 wherein the applicator shaft includes a bleeder
- 6 hole having a diameter one third or less the diameter of
- 7 said nozzle.
- 1 6. The apparatus of claim 3, further comprising:
- a motor, for rotating said shaft, coupled to
- said applicator shaft and to said control module.
- 7. The apparatus of claim 6, wherein the control module
- 2 includes:
- a timing circuit for activating said pump in
- response to activation of said contact switch and for
- 5 activating said motor following activation of said pump.
- 1 8. The apparatus of claim 7, wherein the timing circuit
- includes:
- means for deactivating said pump after a set
- 4 period of time; and
- deactivating said motor after deactivation of
- 6 said pump.
- 1 9. The apparatus of claim 2, wherein said tubular
- 2 applicator tip includes:
- an open shaft end attached to said applicator
- 4 shaft; and

-18-

a plurality of nozzles located along a line 5 extending in the axial direction between said closed tip 6 7 end and said open end. The apparatus of claim 9 wherein the tubular 1 applicator tip further comprises: a mushroom shaped cap portion at the closed tip 3 end; and 4 wherein each of said plurality of nozzles is a 5 hole in the sidewall of said tubular applicator tip. A system for applying a thermal conductive medium to 1 a portion of the interior of a sheath, the system comprising: 3 a thermal conductive medium storage device; a pump coupled to the thermal conductive medium 5 5 storage device; a thermal conductive medium applicator tip 7 coupled to said pump and including at least on hole 8 through which thermal conductive medium can be expelled 9 when pumped through the applicator tip by said pump; and 10 a switch coupled to said pump, for controlling 11 activation of said pump. 12 The system of claim 11, further comprising: 1 12. a hollow applicator shaft for mounting said thermal conductive medium applicator tip, the hollow 3

applicator shaft coupling said thermal conductive medium

applicator tip to the pump; and

4

5

-19-

5	a motor connected to said hollow applicator
7	shaft for causing said applicator shaft to rotate.
1	13. The system of claim 12, wherein said thermal
2	conductive medium applicator tip is tubular in shape
3	having a closed tip end, an open shaft end and a sidewall
4	extending from the closed tip end to the open shaft end,
5	said hole being located in the sidewall.
1	14. The system of claim 13, further comprising:
2	a control circuit for coupling said switch to
3	said pump and said motor, the control circuit including
4	means for activating said pump in response to activation
5	of said switch.
1	15. The system of claim 11, wherein said switch is a
2	contact switch, the switch being positioned to come into
3	contact with the sheath when the sheath is positioned
4	over said thermal conductive medium applicator tip.
1	16. A method of applying a thermal conductive medium to
2	an interior portion of a sheath, the method comprising:
3	positioning a sheath over a thermal conductive
4	medium applicator tip;
5	starting the pumping of the thermal conductive
6	medium;
7	rotating the applicator tip; and
8	stopping the pumping of the thermal conductive
9	medium after a first set period of time.

-20-

1 17. The method of claim 16, further comprising:

stopping the rotation of the applicator tip

- after a second set period of time passes, the second
- 4 period of time starting from the point in time at which
- 5 the pumping is stopped.
- 1 18. The method of claim 17, wherein the applicator tip
- is attached to a source of thermal conductive medium by
- an applicator shaft, the method further comprising:
- 4 purging the applicator shaft of thermal
- 5 conductive medium after the rotation of the applicator
- 6 tip is stopped.
- 1 19. The method of claim 18, further comprising:
- following stopping the rotation but prior to
- purging, removing the sheath so that it is no longer
- positioned over the applicator tip.
- 1 20. The method of claim 16, further comprising:
- sensing when said sheath is positioned over a
- 3 thermal conductive medium applicator tip; and
- wherein said step of starting the pumping is
- 5 performed in response to sensing that said sheath is
- 6 positioned over the thermal conductive medium applicator
- 7 tip.
- 1 21. The method of claim 17, wherein stopping the pumping
- of the thermal conductive medium after a first set period
- 3 of time includes:

4	operating the control circuit to stop the							
5	supply of power to a pump; and							
б	wherein stopping the rotation of the applicator							
7	tip includes:							
8	operating the control circuit to stop the							
9	supply of power to a motor used to rotate the							
10	applicator tip.							
1	22. The method of claim 19, wherein the first set period							
2	of time is long enough to pump sufficient thermal							
3	conductive medium to produce a coating on said interior							
4	portion of the sheath having a thickness, T, in the range							
5	of .002" < T < .004".							